

## Statistical Report

The following data are scores of a test collected from 3 different classes

Set 1					Set 2					Set 3				
gender	DOB	Set	score	grade	gender	DOB	Set	score	grade	gender	DOB	Set	score	grade
F		Y2	171	A	M	1/10/96	X1	169	A	F		X2	121	C
M	8/9/96	Y2	137	C	M	21/3/97	X1	168	A	M	10/5/97	X2	120	C
M	21/6/97	Y2	151	B	M	10/1/97	X1	166	A	F	16/8/97	X2	158	B
M	5/7/97	Y2	133	C	F	7/9/96	X1	164	A	M	22/8/97	X2	122	C
F	23/10/96	Y2	143	B	M	29/1/97	X1	158	B	M		X2	130	C
F	21/6/97	Y2	150	B	F	3/8/97	X1	160	A			X2	149	B
M	25/2/97	Y2	122	C	M	1/12/96	X1	144	B	M		X2	127	C
F		Y2	134	C	M	29/11/96	X1	151	B	M	30/4/97	X2	141	B
M	9/1/97	Y2	109	D	M	1/7/97	X1	159	B	M	10/5/97	X2	129	C
F	20/4/97	Y2	129	C	F	25/4/97	X1	154	B	M	15/4/97	X2	122	C
M	8/7/97	Y2	149	B	M	5/8/97	X1	155	B	M	25/1/97	X2	116	D
F	4/11/96	Y2	137	C	M	5/8/97	X1	152	B	M	15/2/97	X2	120	C
M		Y2	140	B			X1	162	A	F	4/3/97	X2	112	D
F	15/9/96	Y2	154	B	M	6/10/96	X1	139	C	M	3/12/96	X2	146	B
M	23/8/97	Y2	130	C	M	11/1/97	X1	162	A	M	20/12/96	X2	125	C
M	13/2/97	Y2	110	D	M	13/5/97	X1	131	C	F	6/12/96	X2	144	B
M	7/4/97	Y2	109	D	F		X1	28	U	F	23/12/96	X2	129	C
F	9/6/97	Y2	140	B	M	9/2/97	X1	131	C	F	25/7/97	X2	135	C
M	2/9/96	Y2	131	C	M	5/10/96	X1	155	B	F	30/8/97	X2	139	C
F		Y2	158	B	M	11/8/97	X1	145	B	F	1/4/97	X2	143	B
F	5/11/96	Y2	151	B	M	2/4/97	X1	166	A	M	14/10/96	X2	121	C
F	24/6/97	Y2	136	C	F	20/3/97	X1	154	B	F	21/8/97	X2	131	C
M	6/8/97	Y2	120	C	M	22/6/97	X1	146	B	F	12/8/97	X2	141	B
M	15/3/97	Y2	124	C	M	11/4/97	X1	151	B	M	29/3/97	X2	133	C
M	13/10/96	Y2	143	B	F	21/10/96	X1	160	A	M	11/5/97	X2	131	C
M	10/11/96	Y2	127	C	M	25/1/97	X1	166	A	F	7/1/97	X2	155	B
F	4/7/97	Y2	139	C	M	30/4/97	X1	158	B	F	21/3/97	X2	122	C
M	23/6/97	Y2	151	B	M	7/6/97	X1	139	C	F	5/10/96	X2	152	B
M	23/6/97	Y2	157	B	M	20/5/97	X1	141	B	M	8/8/97	X2	118	D
M	29/6/97	Y2	126	C	F	20/3/97	X1	173	A	M	23/4/97	X2	141	B
					F	20/3/97	X1	165	A	M	13/12/96	X2	110	D
					M	13/1/97	X1	157	B	F	4/11/96	X2	152	B

Choose 1 set of data to conduct your practise and follow instructions in the next page to finish your statistical report.

### **Instructions:**

1. Choose 1 set of data and glue it in the first page of your report under the subtitle "Score of a test for ??"
2. Practice drawing frequency distribution table, stem and leaf chart, histogram and scatter plot and how to give instructions and advertise each graph.

(Refer to NT Chapter 6 and Chapter 10)

Your report should include the following sections/ headings:

#### **Introduction**

#### **Data collection**

#### **Data organization**

#### **Data representation**

#### **Data interpretation**

### **Checklists:**

#### **Introduction**

- What is this report about?
- Which set of data do I choose?
- What relationship do I want to find out?
- What is my hypothesis (educated guess)?

#### **Data collection**

- What method will you use to collect the data (given in page 1)?

#### **Data organization (frequency distribution table/ stem and leaf chart)**

- Draw your table with a ruler (see choices above)  
Give your table a clear and proper underlined **Title**  
Include the total and the units for both variables
- Instructions  
What method do you use to collect data?  
Why did you choose the table you chose?  
How do you organize your data?  
Show step by step of how you drew your table/ stem and leaf chart.

#### **Data representation**

- Draw your graphs (histogram)  
Remember to include the following:
  - i. A clear and proper underlined **Title**
  - ii. **x-axis** and **y-axis** (draw, mark, label and units)
  - iii. All bars are correctly drawn and properly spaced
  - iv. A key if necessary.
- Draw your graph (scatter plot)  
Remember to include the following:
  - i. A clear and proper underlined **Title**
  - ii. **x-axis** and **y-axis** (draw, mark, label and units)
  - iii. All points are correctly drawn with a trend line if necessary
  - iv. A key if necessary.
- Instructions  
Why do you choose this type of graph?  
Show step by step of how you draw the chart.

#### **Data interpretation [Reflection (Criteria D)]**

- Make conclusions/ solution for your real-life problem
- Justify why you choose each table and graph for your report
- Comment on the degree of accuracy and how successful is your conclusions/ solution.